

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	(register\$3 form condition appl\$6 delegat\$3).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/20 16:51
L2	1	(delegat\$3 application applicant).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/20 16:53
L3	368	form password database administra\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:53
L4	148	L3 authori\$6 access\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:53
L5	2	L4 fill\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:53
L6	0	713/65.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:53
L7	0	713/201.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:54
L8	0	713/202.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:54
L9	1388	705/51.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:54
L10	679	715/505,507-508.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:56
L11	26	form fill\$3 collaborat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/12/20 16:54

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L12	15	proxy password temporary	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:55
L13	166	715/506.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:57
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L15	0	L14 (id password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:57
L16	760	delegat\$3 application access\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:57
L17	59	L16 (id or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:57

## EAST Search History

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S69	1	(delegat\$3 application applicant).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/20 16:53
S70	368	form password database administrat\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:53
S71	148	S70 authori\$6 access\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:53
S72	2	S71 fill\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:53
S73	0	713/65.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:53
S74	0	713/201.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:54
S75	0	713/202.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:54
S76	1388	705/51.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:54
S77	679	715/505,507-508.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:56
S78	26	form fill\$3 collaborat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/12/20 16:54

## EAST Search History

S79	15	proxy password temporary	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:55
S80	166	715/506.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/20 16:57
S81	16	delegat\$3 application applicant	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:57
S82	0	S81 (id password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:57
S83	760	delegat\$3 application access\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:57
S84	59	S83 (id or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/12/20 16:57



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### 1 [Structural computing: Unifying structure, behavior, and data with themis types and templates](#)



William Van Lepthien, Kenneth M. Anderson

 August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**
**Publisher:** ACM Press

 Full text available: pdf(332.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Structural computing evolved from work on open hypermedia to aid in the creation of software infrastructure. Open hypermedia had produced software that provided applications with access to hypermedia structures and services. The question was asked if these results could be generalized to create similar tools for other domains. Initial work focused on the development of structure servers that can create and manipulate domain-specific structures, but little work focused on allowing those structure ...

**Keywords:** Chimera, Themis, structural computing, templates, types

### 2 [Web engineering meets natural language processing: a vocal interface generation practice](#)



Hendrik Macedo, Jacques Robin, Roberto Barros

 December 2005 **Proceedings of the 11th Brazilian Symposium on Multimedia and the web WebMedia '05**
**Publisher:** ACM Press

 Full text available: pdf(132.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's trend towards ever more compact devices such as PDAs and mobile phones demands a more pervasive access manner. This paper describes an innovative mediator service architecture based on up-to-date web engineering standards to enable voice-based access to Web applications by means of voice portals and VoiceXML technologies. The core of the architecture is a Natural Language Generator that implements a pipeline of transformation rules. We show how Natural Language Generation technology can ...

**Keywords:** mediator service architecture, natural language generator, spoken dialogue-driven web

### 3 [System technology: Software framework for managing heterogeneity in mobile collaborative systems](#)



Carlos D. Correa, Ivan Marsic

 November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on**

**Supporting group work****Publisher:** ACM PressFull text available:  [pdf\(658.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Heterogeneity aspects in mobile collaborative systems, such as differences in user's interest, semantic conflicts across different domains and representations, and disparate device capabilities, cause difficulties in developing software applications. One of the key problems for collaborative applications is maintaining a consistent shared state. In this paper, we describe a framework that manages several aspects of heterogeneity to maintain consistency across the collaborating sites. We assume gr ...

**Keywords:** consistency maintenance, content adaptation, mobile computing, scene simplification, virtual worlds

**4 Efficient web browsing on handheld devices using page and form summarization**January 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(4.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a design and implementation for displaying and manipulating HTML pages on small handheld devices such as personal digital assistants (PDAs), or cellular phones. We introduce methods for summarizing parts of Web pages and HTML forms. Each Web page is broken into text units that can each be hidden, partially displayed, made fully visible, or summarized. A variety of methods are introduced that summarize the text units. In addition, HTML forms are also summarized by displaying just the t ...

**Keywords:** PDA, Personal digital assistant, WAP, WML, forms, handheld computers, mobile computing, summarization, ubiquitous computing, wireless computing

**5 Understanding accessibility: A Semantic-web based framework for developing applications to improve accessibility in the WWW**

Christos Kouroupetroglou, Michail Salampasis, Athanasios Manitsaris

May 2006 **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility? W4A****Publisher:** ACM PressFull text available:  [pdf\(665.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the biggest issues the World Wide Web (WWW) community has to overcome is accessibility for all. The rapid expansion of the WWW using problematic web authoring practices, together with the dominance of the desktop metaphor in web page design has raised many WWW accessibility problems for people with disabilities. In this paper we present a what may be termed as a "Semantic Web application framework" which allows different applications to be designed and developed for improving accessibilit ...

**Keywords:** RDF, accessibility, information seeking, metadata, semantic web, voice browser

**6 Improved proxy re-encryption schemes with applications to secure distributed storage**

Giuseppe Ateniese, Kevin Fu, Matthew Green, Susan Hohenberger

February 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(331.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In 1998, Blaze, Bleumer, and Strauss (BBS) proposed an application called *atomic proxy re-encryption*, in which a semitrusted proxy converts a ciphertext for Alice into a

ciphertext for Bob *without* seeing the underlying plaintext. We predict that fast and secure re-encryption will become increasingly popular as a method for managing encrypted file systems. Although efficiently computable, the wide-spread adoption of BBS re-encryption has been hindered by considerable security risks. ...

**Keywords:** Proxy re-encryption, bilinear maps, double decryption, key translation

## 7 S  ret   et Continuit   de services: Une approche pour une continuit   de service pour les utilisateurs de terminaux mobiles

Nicolas Le Sommer, Herv   Roussain

May 2005 **Proceedings of the 2nd French-speaking conference on Mobility and ubiquity computing UbiMob '05**

**Publisher:** ACM Press

Full text available:  [pdf\(505.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present an approach to provide owners of mobile devices with ubiquitous services. This approach relies on a context-aware deployment of adaptive services on mobile devices and on the collaboration of these devices. These services are designed to provide all (or a part) of the functionalities of the services offered by infrastructure networks equipped with a wireless extension. This approach aims at cutting off from the connection constraints binding mobile devices to the access ...

**Keywords:** adaptive services, context-awareness, deployment, mobile networks

## 8 Using metalevel techniques in a flexible toolkit for CSCW applications

Paul Dourish

June 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(292.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ideally, software toolkits for collaborative applications should provide generic, reusable components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications and the mechanics of group interaction present a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure, below the level at which toolkits typically offer control. This article describe ...

**Keywords:** consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

## 9 Simplify: a theorem prover for program checking

David Detlefs, Greg Nelson, James B. Saxe

May 2005 **Journal of the ACM (JACM)**, Volume 52 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(1.93 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article provides a detailed description of the automatic theorem prover Simplify, which is the proof engine of the Extended Static Checkers ESC/Java and ESC/Modula-3. Simplify uses the Nelson--Oppen method to combine decision procedures for several important theories, and also employs a matcher to reason about quantifiers. Instead of conventional matching in a term DAG, Simplify matches up to equivalence in an E-graph, which detects many relevant pattern instances that would be missed by th ...

**Keywords:** Theorem proving, decision procedures, program checking

10. Environmental acquisition: a new inheritance-like abstraction mechanism

Joseph Gil, David H. Lorenz

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '96**, Volume 31 Issue 10

Publisher: ACM Press

Full text available: pdf(2.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The class of an object is not necessarily the only determiner of its runtime behaviour. Often it is necessary to have an object behave differently depending upon the other objects to which it is connected. However, as it currently stands, object-oriented programming provides no support for this concept, and little recognition of its role in common, practical programming situations. This paper investigates a new programming paradigm, *environmental acquisition* in the context of *object ag* ...

11. Broad coverage paragraph segmentation across languages and domains

Caroline Sporleder, Mirella Lapata

July 2006 **ACM Transactions on Speech and Language Processing (TSLP)**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(300.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article considers the problem of automatic paragraph segmentation. The task is relevant for speech-to-text applications whose output transcripts do not usually contain punctuation or paragraph indentation and are naturally difficult to read and process. Text-to-text generation applications (e.g., summarization) could also benefit from an automatic paragraph segmentation mechanism which indicates topic shifts and provides visual targets to the reader. We present a paragraph segmentation mod ...

**Keywords:** Machine learning, paragraph breaks, segmentation, summarization

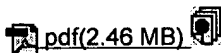
12. TextTiling: segmenting text into multi-paragraph subtopic passages

Marti A. Hearst

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Publisher: MIT Press

Full text available:



pdf(2.46 MB)

[Publisher Site](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, or subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occurrence and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph subtopic segmentation should be useful for many text analysis tasks, including information retrieval and ...

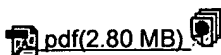
13. Semantics of paragraphs

Wlodek Zadrozny, Karen Jensen

June 1991 **Computational Linguistics**, Volume 17 Issue 2

Publisher: MIT Press

Full text available:



pdf(2.80 MB)

[Publisher Site](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present a computational theory of the paragraph. Within it we formally define coherence, give semantics to the adversative conjunction "but" and to the Gricean maxim of quantity, and present some new methods for anaphora resolution. The theory precisely characterizes the relationship between the content of the paragraph and background knowledge needed for its understanding. This is achieved by introducing a new type of logical theory consisting of an object level, corresponding to the content ...



14 WEST: a Web browser for small terminals

 Staffan Björk, Lars Erik Holmquist, Johan Redström, Ivan Bretan, Rolf Danielsson, Jussi Karlgren, Kristofer Franzén

November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology**


**Publisher:** ACM Press

Full text available:  pdf(173.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe WEST, a Web browser for Small Terminals, that aims to solve some of the problems associated with accessing web pages on hand-held devices. Through a novel combination of text reduction and focus+context visualization, users can access web pages from a very limited display environment, since the system will provide an overview of the contents of a web page even when it is too large to be displayed in its entirety. To make maximum use of the limited resources available on a typica ...

**Keywords:** WAP (wireless application protocol), flip zooming, focus+context visualization, hand-held devices, proxy systems, text reduction, web browser

15 Computer security (SEC): An anomaly-driven reverse proxy for web applications

 Fredrik Valeur, Giovanni Vigna, Christopher Kruegel, Engin Kirda

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**


**Publisher:** ACM Press

Full text available:  pdf(232.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Careless development of web-based applications results in vulnerable code being deployed and made available to the whole Internet, creating easily-exploitable entry points for the compromise of entire networks. To ameliorate this situation, we propose an approach that composes a web-based anomaly detection system with a reverse HTTP proxy. The approach is based on the assumption that a web site's content can be split into security sensitive and non-sensitive parts, which are distributed to diffe ...

**Keywords:** anomaly detection, data distribution, web proxy

16 Hypermedia in the Small: Hunter gatherer: interaction support for the creation and management of within-web-page collections

 M. C. schraefel, Yuxiang Zhu, David Modjeska, Daniel Wigdor, Shengdong Zhao

May 2002 **Proceedings of the 11th international conference on World Wide Web**


**Publisher:** ACM Press

Full text available:  pdf(447.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Hunter Gatherer is an interface that lets Web users carry out three main tasks: (1) collect components from within Web pages; (2) represent those components in a collection; (3) edit those component collections. Our research shows that while the practice of making collections of content from within Web pages is common, it is not frequent, due in large part to poor interaction support in existing tools. We engaged with users in task analysis as well as iterative design reviews in order to underst ...

**Keywords:** attention, collections, information gathering and management, transclusions, web-based interaction design

17 Supporting application development in the semantic web

 Daniel Oberle, Steffen Staab, Rudi Studer, Raphael Volz

May 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Semantic Web augments the current WWW by giving information a well-defined meaning, better enabling computers and people to work in cooperation. This is done by adding machine understandable content to Web resources. Such added content is called metadata, whose semantics is provided by referring to an ontology---a domain's conceptualization agreed upon by a community. The Semantic Web relies on the complex interaction of several technologies involving ontologies. Therefore, sophisticated Sem ...

**Keywords:** Application server, KAON, KAON SERVER, Semantic Web, Wonder-Web, extensibility, interoperation, middleware, ontology, reuse, semantic middleware

## 18 Applications: Generating coherent argumentative paragraphs

Michael Elhadad

August 1992 **Proceedings of the 14th conference on Computational linguistics - Volume 2**

**Publisher:** Association for Computational Linguistics

Full text available:  [pdf\(539.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We address the problem of generating a coherent paragraph presenting arguments for a conclusion in a text generation system. Existing text planning techniques are not appropriate for this task for two main reasons: they do not explain how *arguments* can be linked together in a linear presentation order and they do not explain how the rhetorical function of a proposition affects its wording. We present a mechanism to generate argumentative paragraphs where argumentative relations constrain n ...

## 19 Interactive semantic analysis of English paragraphs

Yorick Wilks

September 1969 **Proceedings of the 1969 conference on Computational linguistics**

**Publisher:** Association for Computational Linguistics

Full text available:  [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes the use of an on-line system to do word-sense ambiguity resolution and content analysis of English text paragraphs, using a system of semantic analysis programmed in Q32 LISP 1.5. The system of semantic analysis comprised dictionary codings for the text words, coded forms of permitted message, and rules producing message forms in combination on the basis of a criterion of semantic closeness. All these can be expressed within a single system of rules of phrase-structure form. ...

**Keywords:** interpretation, language analysis, semantics, template

## 20 Courses: Geometric modeling based on triangle meshes



Mario Botsch, Mark Pauly, Christian Rössl, Stephan Bischoff, Leif Kobbelt

July 2006 **Material presented at the ACM SIGGRAPH 2006 conference SIGGRAPH '06**

**Publisher:** ACM Press

Full text available:  [pdf\(24.64 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course is designed to cover the entire geometry processing pipeline based on triangle meshes. Speakers present the latest concepts for mesh generation and mesh repair; geometry and topology optimizations like mesh smoothing, decimation, and remeshing; and parametrization, segmentation, and shape editing. In addition to describing and discussing the related algorithms, the course provides valuable implementation hints and source code for most of the covered topics.

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# 1 [Efficient web browsing on handheld devices using page and form summarization](#)

January 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 1

Publisher: ACM Press

Full text available: [pdf\(4.47 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a design and implementation for displaying and manipulating HTML pages on small handheld devices such as personal digital assistants (PDAs), or cellular phones. We introduce methods for summarizing parts of Web pages and HTML forms. Each Web page is broken into text units that can each be hidden, partially displayed, made fully visible, or summarized. A variety of methods are introduced that summarize the text units. In addition, HTML forms are also summarized by displaying just the t ...

**Keywords:** PDA, Personal digital assistant, WAP, WML, forms, handheld computers, mobile computing, summarization, ubiquitous computing, wireless computing

## 2 [Understanding accessibility: A Semantic-web based framework for developing applications to improve accessibility in the WWW](#)



Christos Kouroupetroglou, Michail Salampasis, Athanasios Manitsaris

 May 2006 **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility?**  
**W4A**

Publisher: ACM Press

Full text available: [pdf\(665.97 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the biggest issues the World Wide Web (WWW) community has to overcome is accessibility for all. The rapid expansion of the WWW using problematic web authoring practices, together with the dominance of the desktop metaphor in web page design has raised many WWW accessibility problems for people with disabilities. In this paper we present a what may be termed as a "Semantic Web application framework" which allows different applications to be designed and developed for improving accessibilit ...

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### 3 [Improved proxy re-encryption schemes with applications to secure distributed storage](#)



Giuseppe Ateniese, Kevin Fu, Matthew Green, Susan Hohenberger

 February 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(331.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In 1998, Blaze, Bleumer, and Strauss (BBS) proposed an application called *atomic proxy re-encryption*, in which a semitrusted proxy converts a ciphertext for Alice into a ciphertext for Bob *without* seeing the underlying plaintext. We predict that fast and secure re-encryption will become increasingly popular as a method for managing encrypted file systems. Although efficiently computable, the wide-spread adoption of BBS re-encryption has been hindered by considerable security risks. ...

**Keywords:** Proxy re-encryption, bilinear maps, double decryption, key translation

#### 4 Computer security (SEC): An anomaly-driven reverse proxy for web applications



Fredrik Valeur, Giovanni Vigna, Christopher Kruegel, Engin Kirda

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

**Publisher:** ACM Press

Full text available:  [pdf\(232.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Careless development of web-based applications results in vulnerable code being deployed and made available to the whole Internet, creating easily-exploitable entry points for the compromise of entire networks. To ameliorate this situation, we propose an approach that composes a web-based anomaly detection system with a reverse HTTP proxy. The approach is based on the assumption that a web site's content can be split into security sensitive and non-sensitive parts, which are distributed to differ ...

**Keywords:** anomaly detection, data distribution, web proxy

#### 5 WebViews: accessing personalized web content and services



Juliana Freire, Bharat Kumar, Daniel Lieuwen

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  [pdf\(305.83 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Web clipping, content transcoding, dynamic content, electronic commerce, information delivery, personalization, smart bookmarks, voice interfaces, wrappers

#### 6 Efficient Web form entry on PDAs



Oliver Kaljuvee, Orkut Buyukkokten, Hector Garcia-Molina, Andreas Paepcke

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  [pdf\(398.94 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** PDA, WAP, forms, mobile computing, wireless access

#### 7 The Satchel system architecture: mobile access to documents and services



Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming

December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(207.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile professionals require access to documents and document-related services, such as printing, wherever they may be. They may also wish to give documents to

colleagues electronically, as easily as with paper, face&dash;to&dash;face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

### 8 Integrating an object server with other worlds



Alan Purdy, Bruce Schuchardt, David Maier

January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1

**Publisher:** ACM Press

Full text available: pdf(1.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Object-oriented database servers are beginning to appear on the commercial market in response to a demand by application developers for increased modeling power in database systems. Before these new servers can enhance the productivity of application designers, systems designers must provide simple interfaces to them from both procedural and object-oriented languages. This paper first describes a successful interface between an object server and two procedural languages (C and Pascal). Beca ...

### 9 Security through the eyes of users: A convenient method for securely managing passwords



J. Alex Halderman, Brent Waters, Edward W. Felten

May 2005 **Proceedings of the 14th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available: pdf(187.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer users are asked to generate, keep secret, and recall an increasing number of passwords for uses including host accounts, email servers, e-commerce sites, and online financial services. Unfortunately, the password entropy that users can comfortably memorize seems insufficient to store unique, secure passwords for all these accounts, and it is likely to remain constant as the number of passwords (and the adversary's computational power) increases into the future. In this paper, we propose ...

**Keywords:** password security, website user authentication

### 10 Customization 1: Automation and customization of rendered web pages



Michael Bolin, Matthew Webber, Philip Rha, Tom Wilson, Robert C. Miller

October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**

**Publisher:** ACM Press

Full text available: pdf(804.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

On the desktop, an application can expect to control its user interface down to the last pixel, but on the World Wide Web, a content provider has no control over how the client will view the page, once delivered to the browser. This creates an opportunity for end-users who want to automate and customize their web experiences, but the growing complexity of web pages and standards prevents most users from realizing this opportunity. We describe Chickenfoot, a programming system embedded in the Fir ...

**Keywords:** web automation, web browsers

### 11 Article abstracts with full text online: Globus security model for grid environment



Nitin V. Kanaskar, Umit Topaloglu, Coskun Bayrak

November 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 6

**Publisher:** ACM Press

Full text available: pdf(372.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grid technology is increasingly being looked upon as a natural extension of the internet for

engaging in complex data processing tasks over resources which are distributed across the world. Architects and developers employing grid systems must take into consideration security implications. Dynamic generation of virtual organizations leads to a synergistic picture which has to address security requirements never encountered before. Globus toolkit has devised a framework for making secure use of g ...

## 12 Proxy signatures for delegating signing operation



Masahiro Mambo, Keisuke Usuda, Eiji Okamoto

January 1996 **Proceedings of the 3rd ACM conference on Computer and communications security**

**Publisher:** ACM Press

Full text available: pdf(1.18 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 13 Protection and the control of information sharing in multics



Jerome H. Saltzer

July 1974 **Communications of the ACM**, Volume 17 Issue 7

**Publisher:** ACM Press

Full text available: pdf(1.75 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of mechanisms to control the sharing of information in the Multics system is described. Five design principles help provide insight into the tradeoffs among different possible designs. The key mechanisms described include access control lists, hierarchical control of access specifications, identification and authentication of users, and primary memory protection. The paper ends with a discussion of several known weaknesses in the current protection mechanism design.

**Keywords:** Multics, access control, authentication, computer utilities, descriptors, privacy, proprietary programs, protected subsystems, protection, security, time-sharing systems, virtual memory

## 14 Structural computing: Unifying structure, behavior, and data with themis types and templates



William Van Lephien, Kenneth M. Anderson

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

**Publisher:** ACM Press

Full text available: pdf(332.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Structural computing evolved from work on open hypermedia to aid in the creation of software infrastructure. Open hypermedia had produced software that provided applications with access to hypermedia structures and services. The question was asked if these results could be generalized to create similar tools for other domains. Initial work focused on the development of structure servers that can create and manipulate domain-specific structures, but little work focused on allowing those structure ...

**Keywords:** Chimera, Themis, structural computing, templates, types

## 15 Security and privacy: Securing web application code by static analysis and runtime protection



Yao-Wen Huang, Fang Yu, Christian Hang, Chung-Hung Tsai, Der-Tsai Lee, Sy-Yen Kuo

May 2004 **Proceedings of the 13th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available: pdf(2.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Security remains a major roadblock to universal acceptance of the Web for many kinds of

transactions, especially since the recent sharp increase in remotely exploitable vulnerabilities have been attributed to Web application bugs. Many verification tools are discovering previously unknown vulnerabilities in legacy C programs, raising hopes that the same success can be achieved with Web applications. In this paper, we describe a sound and holistic approach to ensuring Web application security. Vi ...

**Keywords:** information flow, noninterference, program security, security vulnerabilities, type systems, verification, web application security

## 16 Web engineering meets natural language processing: a vocal interface generation



practice

Hendrik Macedo, Jacques Robin, Roberto Barros

December 2005 **Proceedings of the 11th Brazilian Symposium on Multimedia and the web WebMedia '05**

**Publisher:** ACM Press

Full text available: pdf(132.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's trend towards ever more compact devices such as PDAs and mobile phones demands a more pervasive access manner. This paper describes an innovative mediator service architecture based on up-to-date web engineering standards to enable voice-based access to Web applications by means of voice portals and VoiceXML technologies. The core of the architecture is a Natural Language Generator that implements a pipeline of transformation rules. We show how Natural Language Generation technology can ...

**Keywords:** mediator service architecture, natural language generator, spoken dialogue-driven web

## 17 Web mining for web personalization



Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

**Publisher:** ACM Press

Full text available: pdf(293.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

**Keywords:** WWW, Web personalization, Web usage mining, user profiling

## 18 Session 7: Squirrel: a decentralized peer-to-peer web cache



Sitaram Iyer, Antony Rowstron, Peter Druschel

July 2002 **Proceedings of the twenty-first annual symposium on Principles of distributed computing**

**Publisher:** ACM Press

Full text available: pdf(1.22 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents a decentralized, peer-to-peer web cache called Squirrel. The key idea is to enable web browsers on desktop machines to share their local caches, to form an efficient and scalable web cache, without the need for dedicated hardware and the associated administrative cost. We propose and evaluate decentralized web caching algorithms for Squirrel, and discover that it exhibits performance comparable to a centralized web cache in terms of hit ratio, bandwidth usage and latency. It ...





The Emperor's old armor

Bob Blakley

September 1996 **Proceedings of the 1996 workshop on New security paradigms**

**Publisher:** ACM Press

Full text available: [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



20 System technology: Software framework for managing heterogeneity in mobile collaborative systems



Carlos D. Correa, Ivan Marsic

November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

**Publisher:** ACM Press

Full text available: [pdf\(658.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



Heterogeneity aspects in mobile collaborative systems, such as differences in user's interest, semantic conflicts across different domains and representations, and disparate device capabilities, cause difficulties in developing software applications. One of the key problems for collaborative applications is maintaining a consistent shared state. In this paper, we describe a framework that manages several aspects of heterogeneity to maintain consistency across the collaborating sites. We assume gr ...

**Keywords:** consistency maintenance, content adaptation, mobile computing, scene simplification, virtual worlds

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